

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### Analysis For Total Metals By EPA Method 200.8

Client ID:	M115807	Client:	Alaskan Copper Works
Date Received:	02/22/07	Project:	PO# M115807, F&BI 702239
Date Extracted:	02/23/07	Lab ID:	702239-01 x10
Date Analyzed:	02/26/07	Data File:	702239-01 x10.154
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	HR

Internal Standard:	% Recovery:	Lower	Upper
Germanium	97	Limit:	Limit:
		60	125

Analyte:	Concentration ug/L (ppb)
Chromium	706
Nickel	807
Copper	295
Zinc	79.1

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	Alaskan Copper Works
Date Received:	Not Applicable	Project:	PO# M115807, F&BI 702239
Date Extracted:	02/23/07	Lab ID:	I7-69 mb
Date Analyzed:	02/26/07	Data File:	I7-69 mb.147
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	HR

Internal Standard:	% Recovery:	Lower	Upper
Germanium	106	Limit:	Limit:
		60	125

Analyte:	Concentration ug/L (ppb)
Chromium	<10
Nickel	<10
Copper	<10
Zinc	<20

**FRIEDMAN & BRUYA, INC.****ENVIRONMENTAL CHEMISTS**

Date of Report: 03/02/07

Date Received: 02/22/07

Project: Metro Self Monitor, PO# M115807, F&amp;BI 702239

**QUALITY ASSURANCE RESULTS  
FOR THE ANALYSIS OF WATER SAMPLES  
FOR TOTAL METALS BY EPA METHOD 200.8**

Laboratory Code: 702171-03 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	ug/L (ppb)	1.07	1.12	5	0-20
Nickel	ug/L (ppb)	24.6	24.5	0	0-20
Copper	ug/L (ppb)	18.3	18.2	1	0-20
Zinc	ug/L (ppb)	295	297	1	0-20

Laboratory Code: 702171-03 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Chromium	ug/L (ppb)	20	1.07	95	50-150
Nickel	ug/L (ppb)	20	24.6	93 b	50-150
Copper	ug/L (ppb)	20	18.3	91 b	50-150
Zinc	ug/L (ppb)	50	295	80 b	50-150

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Chromium	ug/L (ppb)	20	98	70-130
Nickel	ug/L (ppb)	20	103	70-130
Copper	ug/L (ppb)	20	102	70-130
Zinc	ug/L (ppb)	50	100	70-130

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.  
Charlene Morrow, M.S.  
Yelena Aravkina, M.S.  
Bradley T. Benson, B.S.  
Kurt Johnson, B.S.

3012 16th Avenue West  
Seattle, WA 98119-2029  
TEL: (206) 285-8282  
FAX: (206) 283-5044  
e-mail: fbi@isomedia.com

March 2, 2007



INVOICE #07ACU0302-1

Accounts Payable  
Alaskan Copper Works  
628 South Hanford  
Seattle, WA 98134

RE: Project Metro Self Monitor, PO# M115807, F&BI 702239 - Results of testing  
requested by Gerry Thompson for material submitted on February 22, 2007.

1 sample analyzed for Total Chromium, Copper, Nickel and Zinc  
by Method 200.8 @ \$80 per sample

\$ 80.00

Amount Due .....

\$ 80.00

FEDERAL TAX ID # (b) (6)



702239

## SAMPLE CHAIN OF CUSTODY

ME 02/22/07

PI 4

Send Report To Gerald Thompson  
 Company ALASKAN Copper Works  
 Address 628 S. Harbor St  
 City, State, ZIP Seattle WA 98134  
 Phone # 206-382-8559 Fax # 206-382-4505

SAMPLERS (signature)

Page # \_\_\_\_\_ of \_\_\_\_\_

PROJECT NAME/NO.

PO #

METRO SELF monitor  
GRAB

M115807

REMARKS

## TURNAROUND TIME

☐ Standard (2 Weeks)☐ RUSH

Rush charges authorized by: \_\_\_\_\_

## SAMPLE DISPOSAL

☐ Dispose after 30 days☐ Return samples☐ Will call with instructions

Sample ID	Lab ID	Date	Time	Sample Type	# of containers	ANALYSES REQUESTED										Notes
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	709, Cu, Ni, Zn				
M115807	01	2/22/07	12:30	H2O	1											

Friedman & Bruya, Inc.  
 3012 16th Avenue West  
 Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

FORMS\COC\COC.DOC

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Relinquished by:

Received by:

Relinquished by:

Received by:

Gerald Thompson  
 Nhan Phan

Aew  
 FBI

2/22/07 1:53p  
 2/22/07 ✓

Samples received at 19 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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March 2, 2007

Gerry Thompson, Project Manager  
Alaskan Copper Works  
628 South Hanford  
Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on February 22, 2007 from the Metro Self Monitor, PO# M115807, F&BI 702239 project. There are 3 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl  
Project Manager

Enclosures  
ACU0302R